

FILEID**CHMINSCR

H 14

ED
VO

CCCCCCCC	HH	HH	MM	MM	IIIIII	NN	NN	SSSSSSSS	CCCCCCCC	HH	HH	RRRRRRRR
CCCCCCCC	HH	HH	MM	MM	IIIIII	NN	NN	SSSSSSSS	CCCCCCCC	HH	HH	RRRRRRRR
CC	HH	HH	MMMM	MMMM	IIII	NN	NN	SS	CC	HH	HH	RR
CC	HH	HH	MMMM	MMMM	IIII	NN	NN	SS	CC	HH	HH	RR
CC	HH	HH	MM	MM	MM	NNNN	NNNN	SS	CC	HH	HH	RR
CC	HH	HH	MM	MM	MM	NNNN	NNNN	SS	CC	HH	HH	RR
CC	HH	HH	HH	HH	HH	NNNN	NNNN	SSSSSS	CC	HH	HH	RRRRRRRR
CC	HH	HH	HH	HH	HH	NNNN	NNNN	SSSSSS	CC	HH	HH	RRRRRRRR
CC	HH	HH	MM	MM	IIII	NN	NN	SS	CC	HH	HH	RR
CC	HH	HH	MM	MM	IIII	NN	NN	SS	CC	HH	HH	RR
CC	HH	HH	MM	MM	IIII	NN	NN	SS	CC	HH	HH	RR
CC	HH	HH	MM	MM	IIII	NN	NN	SS	CC	HH	HH	RR
CCCCCCCC	HH	HH	MM	MM	IIIIII	NN	NN	SSSSSSSS	CCCCCCCC	HH	HH	RR
CCCCCCCC	HH	HH	MM	MM	IIIIII	NN	NN	SSSSSSSS	CCCCCCCC	HH	HH	RR

....
....
....
....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	IIII	SS
LLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLL	IIIIII	SSSSSSSS

:
:

EDT\$CHMINSCHR - insert a string of characters | 14
16-Sep-1984 00:01:27 14-Sep-1984 12:22:36 VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMINSCHR.BLI;1

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ED
VO

```
1 0001 0 %TITLE 'EDT$CHMINSCHR - insert a string of characters'  
2 0002 0 MODULE EDT$CHMINSCHR (  
3 0003 0 IDENT = 'V04-000'  
4 0004 0 ) =  
5 0005 1 BEGIN  
6 0006 1:  
7 0007 1*****  
8 0008 1*: COPYRIGHT (c) 1978, 1980, 1982, 1984 BY  
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26 0026 1*:  
27 0027 1*:  
28 0028 1*****  
29 0029 1:  
30 0030 1:  
31 0031 1++  
32 0032 1 FACILITY: EDT -- The DEC Standard Editor  
33 0033 1:  
34 0034 1 ABSTRACT:  
35 0035 1:  
36 0036 1 This module does a (change mode) insertion of a string of  
37 0037 1 characters at the current position in the text.  
38 0038 1:  
39 0039 1 ENVIRONMENT: Runs at any access mode - AST reentrant  
40 0040 1:  
41 0041 1 AUTHOR: Bob Kushlis, CREATION DATE: Unknown  
42 0042 1:  
43 0043 1 MODIFIED BY:  
44 0044 1:  
45 0045 1 1-001 - Original. DJS 04-Feb-1981. This module was created by  
46 0046 1 extracting the routine INSERT_CHARS from the module CHANGE.BLI.  
47 0047 1 1-002 - Regularize headers. JBS 02-Mar-1981  
48 0048 1 1-003 - Change SPLIT_LINE to EDT$$SPLT_LNINS. JBS 30-Mar-1981  
49 0049 1 1-004 - Fix up some comments. JBS 02-Jun-1981  
50 0050 1 1-005 - Use new message codes. JBS 04-Aug-1981  
51 0051 1 1-006 - New screen update logic. JBS 13-Sep-1982  
52 0052 1 1-007 - Replace call to edt$$tst_eob. STS 22-Sep-1982  
53 0053 1 1-008 - Add a parameter to the split line routine. SMB 16-Nov-1982  
54 0054 1 1-009 - Change the parameter to split line routine. SMB 17-Nov-1982  
55 0055 1 1-010 - Change the call to EDT$$MRK_LNCHG. JBS 27-Dec-1982  
56 0056 1--  
57 0057 1
```

EDTSCHMINSCR
V04-000

EDTSCHMINSCR - insert a string of characters
Declarations

J 14
16-Sep-1984 00:01:27
14-Sep-1984 12:22:36

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMINSCR.BLI;1

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ED
VO

```
59      0058 1 ZSBTTL 'Declarations'  
60      0059 1 :  
61      0060 1 : TABLE OF CONTENTS:  
62      0061 1 :  
63      0062 1 :  
64      0063 1 REQUIRE 'EDTSRC:TRAROUNAM';  
65      0502 1 :  
66      0503 1 FORWARD ROUTINE  
67      0504 1     EDT$INS_STR;  
68      0505 1 :  
69      0506 1 :  
70      0507 1 : INCLUDE FILES:  
71      0508 1 :  
72      0509 1 :  
73      0510 1 REQUIRE 'EDTSRC:EDTREQ';  
74      0645 1 :  
75      0646 1 :  
76      0647 1 : MACROS:  
77      0648 1 :  
78      0649 1 :     NONE  
79      0650 1 :  
80      0651 1 : EQUATED SYMBOLS:  
81      0652 1 :  
82      0653 1 :     NONE  
83      0654 1 :  
84      0655 1 : OWN STORAGE:  
85      0656 1 :  
86      0657 1 :     NONE  
87      0658 1 :  
88      0659 1 : EXTERNAL REFERENCES:  
89      0660 1 :  
90      0661 1 :     In the routine
```

! Insert a string of characters at the current position

```
92      0662 1 %SBTTL 'EDT$INS_STR - insert a string of characters'
93      0663 1
94      0664 1 GLOBAL ROUTINE EDT$INS_STR (
95          0665 1     S,
96          0666 1     L
97          0667 1     ) =
98      0668 1
99      0669 1 !++
100     0670 1 FUNCTIONAL DESCRIPTION:
101     0671 1
102     0672 1 Insert a string of characters at the current position in the text.
103     0673 1
104     0674 1 FORMAL PARAMETERS:
105     0675 1
106     0676 1     S           a pointer to the string
107     0677 1     L           the length of the string
108     0678 1
109     0679 1 IMPLICIT INPUTS:
110     0680 1
111     0681 1     EDT$SA_SEL_POS
112     0682 1     EDT$SA_LN_END
113     0683 1     EDT$SG_LN_LEN
114     0684 1     EDT$SA_LN_PTR
115     0685 1     EDT$ST_LN_BUF
116     0686 1
117     0687 1 IMPLICIT OUTPUTS:
118     0688 1
119     0689 1     EDT$SA_SEL_POS
120     0690 1     EDT$SA_LN_PTR
121     0691 1
122     0692 1 ROUTINE VALUE:
123     0693 1
124     0694 1     1 = success, 0 = error (line overflow)
125     0695 1
126     0696 1 SIDE EFFECTS:
127     0697 1
128     0698 1     NONE
129     0699 1
130     0700 1 !--
131     0701 1
132     0702 2 BEGIN
133     0703 2
134     0704 2 EXTERNAL ROUTINE
135     0705 2     EDT$MSG_BELL : NOVALUE,
136     0706 2     EDT$MRK_LNCHG : NOVALUE,
137     0707 2     EDT$SCS_UP,
138     0708 2     EDT$UPD_LNLEN : NOVALUE,
139     0709 2     EDT$SEL_RNGPOS,
140     0710 2     EDT$SPLT_LNINS : NOVALUE;
141     0711 2
142     0712 2 EXTERNAL
143     0713 2     EDT$SA_SEL_POS,
144     0714 2     EDT$SA_LN_END,
145     0715 2     EDT$SG_LN_LEN,
146     0716 2     EDT$SA_WK_LN : REF LIN_BLOCK,
147     0717 2     EDT$SZ_EOB_LN,
148     0718 2     EDT$SA_LN_PTR,
```

```
149      0719 2     EDT$ST_LN_BUF;                      ! Line buffer
150      0720 2
151      0721 2     MESSAGES ((LINEXC255));
152      0722 2     !+ First make sure the line will not overflow.
153      0723 2     !- IF (.EDTSSG_LN_LEN + .L GTRU 255)
154      0724 2     THEN
155      0725 2     BEGIN
156      0726 2     EDTSSMSG_BELL (EDTS_LINEXC255);
157      0727 2     RETURN (0);
158      0728 2     END
159      0729 2
160      0730 2     ELSE
161      0731 2     BEGIN
162      0732 2
163      0733 2     LOCAL
164      0734 2
165      0735 2     OLD_LPOINT;
166      0736 2
167      0737 2
168      0738 2     !+ Check for the old EOB.
169      0739 2     !-
170      0740 2
171      0741 2
172      0742 4     IF (.EDTSSA_WK_LN EQLA EDT$$Z_EOB_LN)
173      0743 3     THEN
174      0744 4     BEGIN
175      0745 4     EDTSSPLT_LNINS (0);                  ! Don't use optimizer
176      0746 4     EDT$$CS_UP ();
177      0747 3     END;
178      0748 2
179      0749 2     !+ Compute the new cursor position.
180      0750 2
181      0751 2     !-
182      0752 2     OLD_LPOINT = .EDTSSA_LN_PTR;
183      0753 2     EDTSSA_LN_PTR = CHSP[US(.EDTSSA_LN_PTR, .L);
184      0754 2
185      0755 2     !+ Open up a hole for the new characters.
186      0756 2
187      0757 2     EDTSSCPY_MEM (CH$DIFF (.EDTSSA_LN_END, .OLD_LPOINT), .OLD_LPOINT, .EDTSSA_LN_PTR);
188      0758 2
189      0759 2     !+ And move them in.
190      0760 2
191      0761 2     EDTSSCPY_MEM (.L, .S, .OLD_LPOINT);
192      0762 2
193      0763 2     !+ Update the length of the line.
194      0764 2
195      0765 2     EDTSSUPD_LNLEN (.L);
196      0766 2
197      0767 2     !+ Record the insertion for the screen updater.
198      0768 2
199      0769 2     EDTSSMRK_LNCHG (SCR_EDIT MODIFY, .OLD_LPOINT - EDT$ST_LN_BUF);
200      0770 2
201      0771 2     !+ Update select range if necessary.
202      0772 2
203      0773 2
204      0774 4     IF (EDTSSSEL_RNGPOS () EQ 0)
205      0775 3     THEN
```

EDT\$CHMINSCHR - insert a string of characters 16-Sep-1984 00:01:27 VAX-11 Bliss-32 V4.0-742
 EDT\$SINS_STR - insert a string of characters 14-Sep-1984 12:22:36 [EDT.SRC]CHMINSCHR.BLI;1 Page (3)

```

 206      0776 3  !+
 207      0777 3  | The current line is the select line.
 208      0778 3  |
 209      0779 3  |
 210      0780 3  IF CH$PTR_LSS (.OLD_LPOINT, .EDT$SA_SEL_POS) THEN EDT$SA_SEL_POS = CH$PLUS (.EDT$SA_SEL_POS, .L)
 211      0781 3
 212      0782 3  RETURN (1);
 213      0783 2  END;
 214      0784 2
 215      0785 1  END;           ! of routine EDT$SINS_STR

.TITLE EDT$CHMINSCHR EDT$CHMINSCHR - insert a string o
.IDENT \V04-000\ f characters

.EXTRN EDT$MSG_BELL, EDT$MRK_LNCHG
.EXTRN EDT$SCS_UP, EDT$SUPD_LNEN
.EXTRN EDT$SEL_RNGPOS
.EXTRN EDT$SPLT_LNINS
.EXTRN EDT$SA_SEL_POS, EDT$SA_LN_END
.EXTRN EDT$SG_LNLEN, EDT$SA_WKLN
.EXTRN EDT$SZ_EOB_LN, EDT$SA_LN_PTR
.EXTRN EDT$ST_LN_BUF, EDT$LINEXC255

.PSECT _EDT$CODE,NOWRT, SHR, PIC.2

      59 00000000G 00 03FC 00000          .ENTRY EDT$INS_STR, Save R2,R3,R4,R5,R6,R7,R8,R9 : 0664
      58 00000000G 00 9E 00002          MOVAB EDT$SA_SEL_POS, R9
      57 08 AC D0 00010          MOVAB EDT$SA_LN_PTR, R8
      50 00000000G 00 57 C1 00014          MOVL L, R7
      8F 00 50 D1 0001C          ADDL3 R7, EDT$SG_LNLEN, R0
      10 1B 00023          CMPL R0, #255
      00000000G 00 8F DD 00025          BLEQU 1S
      50 00000000G 01 FB 0002B          PUSHL #EDT$LINEXC255
      50 00000000G 00 50 D4 00032          CALLS #1, EDT$MSG_BELL
      00000000G 00 00 04 00034          CLRL R0
      50 00000000G 00 9E 00035          RET
      50 00000000G 00 D1 0003C          1$: MOVAB EDT$SZ_EOB_LN, R0
      10 12 00043          CMPL EDT$SA_WKLN, R0
      7E D4 00045          BNEQ 2S
      00000000G 00 01 FB 00047          CLRL -(SP)
      00000000G 00 00 FB 0004E          CALLS #1, EDT$SPLT_LNINS
      56 68 D0 00055          CALLS #0, EDT$SCS_UP
      68 57 C0 00058          2$: MOVL EDT$SA_LN_PTR, OLD_LPOINT
      51 00000000G 00 56 C3 0005B          ADDL2 R7, EDT$SA_LN_PTR
      50 68 D0 00063          SUBL3 OLD_LPOINT, EDT$SA_LN_END, R1
      60 66 51 28 00066          MOVL EDT$SA_LN_PTR, R0
      66 04 BC 57 28 0006A          MOVC3 R1, (OLD_LPOINT), (R0)
      00000000G 00 57 DD 0006F          MOVC3 R7, AS, TOLD_LPOINT
      50 00000000G 01 FB 00071          PUSHL R7
      7E 56 50 00000000G 00 9E 00078          CALLS #1, EDT$SUPD_LNLEN
      50 00000000G 00 50 C3 0007F          MOVAB EDT$ST_LN_BUF, R0
      00000000G 00 01 DD 00083          SUBL3 R0, OLD_LPOINT, -(SP)
      00000000G 00 02 FB 00085          PUSHL #1
      00000000G 00 00 FB 0008C          CALLS #2, EDT$MRK_LNCHG
      00000000G 00 00 FB 0008C          CALLS #0, EDT$SEL_RNGPOS
  
```

EDT\$CHMINSCR
V04-000

EDT\$CHMINSCR - insert a string of characters
EDT\$SINS_STR - insert a string of characters

N 14
16-Sep-1984 00:01:27
14-Sep-1984 12:22:36

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]CHMINSCR.BLI;1

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50	D5	00093	TSTL	R0
08	12	00095	BNEQ	3\$
69	56	D1 00097	CMPL	OLD_LPOINT, EDT\$SA_SEL_POS
	03	1E 0009A	BGEQU	3\$
69	57	C0 0009C	ADDL2	R7, EDT\$SA_SEL_POS
50	01	D0 0009F 3\$:	MOVL	#1, R0
	04	000A2	RET	

: Routine Size: 163 bytes. Routine Base: _EDT\$CODE + 0000

: 216 0786 1
: 217 0787 1 !<BLF/PAGE>

EDT\$CHMINSCHR B 15
 V04-000 EDT\$CHMINSCHR - insert a string of characters 16-Sep-1984 00:01:27 VAX-11 Bliss-32 V4.0-742
 EDT\$\$INS_STR - insert a string of characters 14-Sep-1984 12:22:36 [EDT.SRC]CHMINSCHR.BLI;1
 : 219 0788 1 END Page 7
 : 220 0789 1
 : 221 0790 0 ELUDOM (4)

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	163	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	11	2	40	00:00.2
\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:CHMINSCHR/OBJ=OBJ\$:CHMINSCHR MSRC\$:CHMINSCHR.BLI/UPDATE=(ENH\$:
CHMINSCHR)

Size: 163 code + 0 data bytes
 Run Time: 00:12.4
 Elapsed Time: 00:14.3
 Lines/CPU Min: 3816
 Lexemes/CPU-Min: 11314
 Memory Used: 81 pages
 Compilation Complete

0131 AH-BT13A-SE
VAX/VMS V4.0

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